

BLOCK

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•
9657

9727

Arthur Cronquist
New York Botanical
Garden
New York 58, N.Y.
U.S.A.

9657 October 13, 1962

Open, brushy, felsitic
southwest slopes 37
miles southeast of Oaxaca,
state of Oaxaca, Mexico,
5500 feet elevation.

Shrub 2-3 m. tall. Heads
melliferous, sunflower yellow,
with mostly 8 rays.

Plants abundant. Ray achenes
sterile, with reduced pappus.

Disk achenes hairy, with
a pappus of 2 long, slender
scales and several short,
relatively broader ones.

Viguiera eriophora Greenm.

0.580

(6) ✓

Helianthus 8 rays

7653 Oct 1962
Same place as 7652. Shrub
about 2 m. tall, with milky
juice. Heads a peculiar
shade of orange, with
about 20-25 rays.
Plants seen occasionally
from here ~~south~~ east
well into Chiapas.

Liabum andrieuxii (DC.) Benth.
+ Hook.

- orange - 20-25 rays 2 m.
Liabum (5)

9659 - October 13, 1962.
Same place as 9657.
Flowers white or very
faintly lavender.

Florestina pedata (Cav.) Cass.

✓

reticulata Cass.

annua & *reticulata*?

(10)

9660 - October 13, 1962
Roadside weed along the
Pan-American highway
in small-forest region
dominated by *Lycium*,
Bursera, *Euphorbia*, and
other deciduous angiosperms,
97 miles southeast of
Oaxaca and 54 miles north-
west of Tehuantepec, state
of Oaxaca, Mexico. Elevation
about 3100 feet. Involucre
purplish. Flowers lavender.
Chromosome number det. by
B. L. Turner as $n=12$.

Florestina latifolia (Poir.) Robinson

Broad-leaved *Florestina* (7)

9661 - October 13, 1962.

Same place as 9660.

Heads rather light yellow,
tending to red at anthesis,
later becoming erect.

Ray 7-10, most commonly 8,
Chromosome number det. by
E. L. Turner as $2n = ca. 17$.

Neutral, sparsely.

Disk achenes strongly flattened
but scarcely winged, with a
pappus of 2 paleaceous awns.

Simsia amplexicaulis (Cav.)

Pers.

7-10
annual Helianthus *Simsia*? (10)

9662. October 13, 1962.

Same place as 9660.

Plants ill-scented.
Heads orange-yellow,
typically in clusters of 6,
the 5 outer ones with 2 rays
each, on the outer side, the
central one rayless.

Syncephalanthia decipiens
Bartl.

Tag. to (7)

9663 - October 13, 1962

In thorny scrub woods
on the summit of the
Coastal hills, 2 miles
east of Salina Cruz, along
the road to La Ventosa, state
of Oaxaca, Mexico.

Pappus none.

Rays 5 or occasionally only 4,
the upper side white with a
yellow base, the lower side
pale greenish. Disk flowers
sterile.

Tragoceras flavicomum DC.

Zinnia (10)

9664 October 13, 1962 -
Same place as 9663
Disk yellow. Ray, some
lucous, usually 3, some-
times only 2.

Friday? 96

9665

Dist. orange, fls 3-8,

with yellow tips

Same place as 9663

Melampodium linearilobum DC.

linearilobum

①

1962 - October 14, 1962
Barro Colorado Island, Panama
deciduous
Pan American
highway, 3 miles west of
Barro Colorado Island, Panama
Barro Colorado Island, Panama
Barro Colorado Island, Panama
Barro Colorado Island, Panama
Shrub, 2-5 m
3-5 rays

Montanoa xanthifolia Sch-Bip.

3-9 rays

(10)

7667 - October 10, 1962
In thin soil on steep,
rocky, shaded banks
along the stream in
~~typical forest~~
deciduous forest, Virginia;
1 mi. N. of ...
3 miles west of ...
...
...
...
...
...
...

Conium maculatum L.

900 ...
...

1955 - ...
...
deciduous forest region.
Pan-American Highway
...
about 2300 ft.
Coarse herbs 1-2 m tall,
single, stemmed at the
base.
...
B-18.

Tithonia rotundifolia (Mill.)

Blake

to 2 m tall

~~Herb~~ *Tithonia* (3)

9659 - 14, 1962
S. ...

15-30 ...
H. ...

... 41 ... there
fertile ... (those
of the rays narrowly triquetrous),
slightly angled distally along
the outer edge, the inner ...
current into the solitary
pappus-awn, a few awns
with a shorter awn on the
outer edge, the others with
... only one awn.

15-30 ... 2: 5

! Type - *Aspergillus*
Specimen number 1268
Cultured on 6/15/68
Headquarters, the way
out 13, ...

Philaetis nelsonii (Greenm.) Blake

on 13 sep 1968

... 6 ... 77

9601 - 10/10/62
Edge of woods (tropical
deciduous forest) along
road. 1000 m elevation. Road
about 2 miles west of
San Andrés and 4 miles east of
the Chiapas-Caparra road
state of Chiapas.
Herb
about 2-4 m tall. Heads
terminal, with small
three pistillate and apparently
fertile, with the tomentose
scales. Pappus 2 pairs of awns.

Verbesina steyermarkii Standl.
dupl. det. James Coleman
?

9673 - October 15, 1962

Brushy plain along
road

harvested along Pan American
highway 4 miles east of
Ocozacoautla, state of
Chiapas. Elevation about
about 5000 feet.

Stems 8-15 dm tall.

Stems white or faintly
~~reddish~~ glaucous.

Heads with 1 or 2 inconspicuous
rays and 5-7 disk flowers

Calea zacatechichi Schlecht.

9673 - October 15, 1962 (7)

9675 - October 15, 1962.
In brush along the roadside
in oak forest zone on
limestone, on volcanic
Peninsular highland,
along road near east
of Tuxtla Gutierrez, state
of Chiapas, Mexico.
Elevation about 3500 ft.
Sprawling shrub 2-3 m.
tall. Heads yellow with
mostly 5 rays.

Coreopsis mutica DC.

~~9676~~ 9676 - October 15, 1960

same place as 9675

Shrub about 2 m. tall.

axillary allspice-like fragrance.

Leaves and bracts with

reddish brown, various

reddish brown glands. Tips

Receptacles, bracts with

reddish brown tips.

Perlymenium nelsonii Robert Greenm.

9676 (9)

9677 - September 15, 1962
Roadside near in cab (about
3000 ft) in the mountains
of the Cordillera Occidental
about 20 miles
east of Tuxtla Gutierrez,
State of Chiapas, Mexico.
Elevation about 3500 feet.
Rays about 6-7, pale
yellow-yellow on both
sides, sometimes tinged
with red.

Zinnia peruviana (L.) L.

Zinnia (10)

Verbesina
trilobata Reiche
15
August 1895
C. J. S. says.

Verbesina sp. aff. *trilobata* Reiche +
Greenm.

Road along the roadside in
 the stream bed
 Highway
 6000 ft elevation, a few
 miles from the sea level
 about 2000 ft. high
 about 2 miles from the
 sea level
 ... pistillate and
 staminate, their achenes
 3-angled. Disk achenes flattened
 but not winged, with a
 pappus of 2 achenes.

Zexmenia elegans Sch-Bip.

?
 spaced
 spaced

20/10/1917

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Ageratum paleaceum (Gay) Hemsl.

11/10/17

11/10/17

11/10/17

11

9631 - October 7, 1962
Thorny forest with Acacia,
Cacti, and ~~Bursera~~ Bursera,
3.5 miles west of Tehuacan
along the Pan American
highway, state of Oaxaca,
Mexico. Elevation about 1000
feet. Shrubs about 1 m tall.
Herbaceous.

Trixis megalophylla Greenm.

9633 - October 17, 1962

Same place as 9632.

Heads yellow, with typically
3 rays, Ray-pappus.

With few plants a papus
of many, long, numerous,
in a small bottle.

Pectis saturejoides (Mill.)

Sch. Bip.

Pectis?

(6)

1971
California and Nevada

in the pine zone
about 42 miles north
of

about 12 years old
about 5-6-5
in tall, with
top rounded like
the base of

with mostly 13-17
leaves
about 1/2 inch
across, hairy, with a
across and general
about 1/2 inch
across

Tithonia palmeri Cronq.

✓
1 HOLOTYPE
7-5-74

1974 - October 17, 1962.
Same place as 1974.
Scrambling, lignum vitae
seed-like. Heads with
with mostly 8 rays.

Bidens squarrosa HBK.

✓

Bidens

1974

1962

9687 - October 17, 1962
Open, savanna like
short forest along the
Pan-American Highway
93 miles northwest of
Tehuacan and 59 miles
southeast of Oaxaca, state
of Oaxaca, Mexico
elevation about 3200 ft.
soils 30-40% sand
collected by ...
...
... (typically 13) days

Simsia Grayi Blake, vel aff.

... (5)

9688 - October 17, 1962

Brushy savanna with
grasses and small trees on
slopes along the
Pan American highway
about 30 miles southeast
of La Paz, state of Cochaca,
Bolivia. Elevation about
5300 feet. Shrub about 1
m. tall. Heads pale yellow.
Sepals or almost all white,
with a narrow light yellow
line fertile, with ³trifurcate
sachens. Petal anthers
which are not ³trifurcate. Pappus
of 2 fragile awns.

Verbesina mollis Bk.

Dupl. det. James Coleman

Verbesina

2687 - October 17, 1962

Waxiang, Guizhou, China
in the mountains of the
southwest of Guizhou, China
about 5000 ft. Has
fruiting.

Dysodia porophylla Cav.

Taxus (7)

...
 ...
 ...

...
 ...
 ...

...
 ...
 ...
 ...

...

Stevia lucida Lag.

✓

...



9691. October 18 1952
Scrubby at roadside along
interwash in dry, bushy
vegetation type, along the
Pan American highway 5 road
miles northwest of
Tanzago span, and 1/2
miles northwest of Oaxaca,
state of Oaxaca, Mexico.
Elevation about 6000 ft.
Fls clustered on a
short herbaceous stalk
arising from the base
of the plant. Fruit
greenish white.

Piqueria trinervia Cav.

Piqueria trinervia (Cav.)

Thru October 18, 1962
Shrub 3-4 m. tall in zone
of xerophytic, brushy
vegetation along the Pan-
american highway, 5 road
miles northwest of
Tamazulapan, and about 100
miles northwest of Tuxtla,
state of Oaxaca, Mexico.
Elevation about 6000 feet.
Stems up to 1 dm. thick.
Common.

Baccharis glutinosa Pers.

✓

Baccharis ()

7693 - October 18, 1962.

Same place as 7691.

Plants becoming woody
at the base, up to about
1.5 m tall. Fruiting
bodies.

Gymnosperma glutinosa (Spreng.)
Less

9. ... in roadside banks
 ... X ...
 ...
 the Pan American ...
 ... westward of
 ... about
 100 miles northwest of
 ... state of ...
 ...
 ... Plants several-
 ...
 ...
 ...
 ... by about 10,
 ... up to 13, their
 achenes sterile, with reduced
 pappus. Disk achenes thickened,
 hairy, with a pappus of 2
 main scales and several shorter,
 pinnate-ciliate scales.

Viguiera cordifolia Gray, sens.
 lat.

9617 - October 13, 1960

Bushy slopes in zone of
xerophytic brushy vegetation
along the mountain
slopes.

Shrubs mostly about 1.5 m.
tall. Heads white.

Eupatorium tomentellum Schrad.

5000 Colombia 18, 1963.
Same as 9697,
plants 2-2.5 m. tall,
leaves white or slightly
ochroleucous, same plants
as above. Inflorescence with 1-5
subtended rays per head.
Pappus none

Zaluzania pringlei Greenm.

Herbarium (1)

October 18, 1962

In subtropical conditions
forest with several spp. of
Bumelia along the Pan American
highway about 100 road miles
~~west of~~ south of
San Juan, about 5 miles
south of Palmar, in the
state of Puerto Rico.
Plant height 460 feet
with a diameter
of 10 inches of Pterocarpus
Numerous large
leaves, 10-15 cm
long, 5-7 cm wide.

Pterocarpus (4)

1000000000

1902 - October 18, 1902
Edges of thin leaf forest,
and along roadside near
Pan-American highway
11 miles S.E. of
Agua de las Estrellas,
State of Puebla, Mexico.
Elevation about 3500 feet.
Soil 15-20 cm. Disk
1.5-2.0 cm. diam.
Sepals 13, sometimes
more.

Montanoa grandiflora (DC.)
Sch.-Bip.

1902 - October 18, 1902
Montanoa

Open grassy field
with a few
shrub and transition
zone between
open grassy field
and a few shrubs
South of Highway
state of Texas
Houston about 10
Dish corolla light yellow
the styles more conspicuous
yellow

Barroetia pavonii Gray

(6)

19. 1942

on ... at the
 ... of ...
 ... about 21 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...

Verbesina sp. aff. *V. nelsonii*
 Rob. & G.

7701 - October 30, 1900

... facing banks along
... in the
...
... 20 ...
...

... about a 5" ...
... disk white, "Daisy"
...
of 1-3 fragile awns and a
minute, irregular, serrate
crown.

Microspermum
memulariaefolium Lag.

October 20 1958
 Found along a small
 stream in the pine- oak
 forest in the mountains of Guatemala
 6200 feet, mixed with
 Cupressus and Pinus
 mostly the specimens of

Plants
 woody stems, striated,
 reddish-brown, sometimes
 marked with
 lenticular spots, not much
 branched, rather woody, ~~marked~~

with small, sessile, ovate
 leaves, ~~marked with~~
 small, ~~marked with~~
 small, ~~marked with~~
 small, ~~marked with~~

opposite, petiole, ~~marked with~~
 Ray central, Distichon ~~marked with~~
 obscurely ~~marked with~~, narrow.
Hymenostephium guatemalense
 (16) (Rob. & Greenm.) B) AKC

1732 - Colaba, Bombay
Aerobically, with green
rhizoids, white, in the
pines - soil 2 cm in the
mountains about 62.
The mother is spiny
and 2-3 mm in length
of the rhizoids. The
rhizoids are green
and 2-3 mm in length.

2500
Stems much branched
bearing stem leaves in
opposite pairs. Heads
globose, white.

Podophania dissecta (H. & A.) Rob.

! *Fleschmannia*

... - ... 1960
... ~~...~~ ...
... ...
... yellowish.
... 5, white, sterile.
Pappus none. Achenes
with thickened, invaginated,
irregular marginal wings.

Coreocarpus cronquistii Sherin
type collection.

... (4)

9705 ...
Semi-open spots on pine-
- oak forest. ...
along ... 62
road ...
... south of
... state of ...
... about
25 ...

Plants wholly ...
from ...
...
Tall, ...
and up to 1.5 m tall.
Flowers ...

Vernonia capreaefolia
(Sch.- Bip.) Gleason

3. - Oct 10, 20. 10
Huge plant 1.5 m tall
branches mostly 1.5 m tall
Desmanthus fruticosus.

Desmanthodium fruticosum
Greenm.

✓

(5)

Desmanthodium

9700 October 10, 1952
open north-facing
sunny hillside, low
growth, with many
flowers. Locally origin
of the
area, 8 road miles south
of the station, state of
New Mexico, U.S.A.
Very common in
open areas.

Brickellia veronicaefolia
(HBK.) Gray

Brickellia (7)

~~2008~~ ~~2007~~ 2007
2007. ~~2007~~ 2007.
Pappus none. Ray flowers
inconspicuous, neutral,
achenes very broad and flat,
but not winged.

Simsia sanguinea Gray, vel aff.

Vernonia ? (1)

9709 - October 20, 1962,
Same place as 9707.
Shrub about 1.5 m. tall.
Flowers white.
A single head has 12 disk
flowers and 1 inconspicuous
ray flower. Pappus scales
10, purple-tinted, some of
them shorter, very serrate
below.

Calea pringlei Rob.

✓

9709 (3)

1906 October 20. 1906.
St. Louis, Missouri
I have collected. Anthers
Gillen.

Guardiola mexicana Humb. &
Bonpl.

✓

9711 - *Veronica* ?
Stems, branching, woody
at base in old growth
at base ~~in~~ in old
growth with some of
the younger, state of
development. Herbarium
specimens about 5 cm long.
Herbarium specimens
about 10 cm long and
wide. Rays pectinate and
apparently fertile. Young rachis
pubescent but ~~apparently~~
not winged. Pappus 1/2
deciduous anthers.

Veronica olivacea Klatt
dupl. det. James Coleman

Montana uncinata Sch. Bip.
A slender, upright
stem, topped with a
single, terminal, globose
umbel of flowers.
The leaves are narrow,
linear, and pointed at the
tip.

Montana uncinata Sch. Bip.

7712

Cal. lobes 5, green, deciduous
 sepals 5, green, deciduous
 petals 5, white, deciduous
 stamens 10, green, deciduous
 ovary 3-lobed, green, deciduous
 fruit 3-lobed, green, deciduous
 seeds 3, green, deciduous
 leaves 10-15, green, deciduous
 flowers 1-2, green, deciduous
 fruit 1-2, green, deciduous
 seeds 1-2, green, deciduous
 leaves 1-2, green, deciduous
 flowers 1-2, green, deciduous
 fruit 1-2, green, deciduous
 seeds 1-2, green, deciduous

Viguiera sphaerocephala (DC.)
 Hemsl.

... ..

9715. October 21, 1962.

Same place as 9714.

~~Plant same as 9714.~~

Herbs, complete. Rare here.

~~9715~~ (11)

9716 - October 21, 1962
 steep, calcareous, southward
 slope with cacti, palms,
 Guadua, and pine;
 dense thicket of ferns,
 about 7000 ft. alt. west
 of Chetumal, state of
 Yucatan, Mexico. Elevation
 about 5500 ft. Shrubs
 2-4 m tall. Heads yellow,
 with tips in 6-rays,
 and pistillate and ~~approximately~~
 sterile. Pappus none.

Zaluzania montagnacfolia
 Sch. Bip.
 (Z. asperifolia Sch. Bip.)

✓

In Guatemala comp. (9)

9717 21. 1961
found along the roadside
in a valley in the foot-
hills of the Sierra Nevada
about 7 road miles
west of the passage state
of Mendocino, Mexico.
Elevation about 1700 feet.
Soil, sometimes scrambling
up to about 1.5 m.
color, black and gray, the rays
deep orange red, mostly
about 21.

Zexmenia crocea Gray

9718 - October 21, 1962,
Tepic, Jalisco, Mexico,
nearby east slope overlooking
the north end of
Chicapancingo, state of
Guerrero, Mexico. Altitude
about 4700 feet.
Plants 2-3 m. tall.
Heads discoid, white.

Zaluzania pringlei Greenm.

Arctostaphylos (8)

9/10/1941. Bidens 20, 1941
in a meadow in a
high valley 20 miles west
of Toluca, Mexico, collected
by S. G. & S. G. & S. G.
Flowers mostly yellow.
Leaves mostly green.
20/9/41

Bidens triplinervia HBK.

Bidens 64

9770 - 6500 ft. 2000 ft.
Sunny roadside, brush
in pine forest ~~in~~
40 miles west of Toluca
state of Mexico.
Flowers 8000 ft.
Stems mostly red
Flowers white.

Stevia hirsuta DC.

Stevia 1100

9721 October 24
Ward along the roadside
in Oak-Ipomoea zone, 11
~~1/2~~ miles northwest of
- Itzacuro, state of
Michoacan, Mexico.

Herbaceous, 6-8 feet.
Plants variable in size, up
to about 1 m. tall. Heads
bright dark orange-red.
Ray ^{about 21} 5-13, descending on
the margin of the pappus.

Zinnia elegans Jacq.

(bright
orange)

Zinnia

7722 - October 24, 1962
Sunny places in oak-savanna
region about 11 miles
west of Mexico City
Mexico about 6000 ft.
Slender shrubs mostly
1-2 m tall. Heads yellow
with mostly 8 rays, 7 here
fertile, with trigonous ach-
enes bearing a long awn at the
inner angle and a short beak
at each of the 2 outer angles.
Disk achenes flattened, 2-awned,
winged along the inner angle.

Zexmenia ceanothifolia (Willd.)
Sch.-Bip.

Helianthus

9723 - October 20, 1962

Same place as 9722.

Coarse shrubs 3-4 m. tall.

Head yellow, with
nearly about 13 rays,
tint neutral, with reduced
filaments.

Viguiera maculata (Bradegee)
Blake



15. 10. 1962

9724 207, loc. 24, 1962
In open, second-growth
soil forest land on
lateritic soil, 12 miles
west of Anolis state
in Michoacan, Mexico
Elevation about 6000 ft.
Perennial from
short branched stems
with sparse, annual, acausal
stems 1-3 m. tall, and
about 2 in. thick at
base, lower leaves
pinnate, upper
narrowly 5-7 rays.

Senecio heracleifolius Hemsl.

Senecio heracleifolius Hemsl.

9775 - *Archibaccharis* *serratifolia*
Brush, western slope
in oak grove, 5 miles
north of Atlix, Yucatan,
Mexico, 6300 feet elevation
Flowers dull white

Archibaccharis serratifolia
(HBK.) Blake

7706 - *Eupatorium* sp.
Same place as 7705
Flowers bright purple

Eupatorium choricephalum
Robins.

Eupatorium 11

9727 October 25, 1960
open grassy, brushy pine
grove, 6 miles north of
Ariz de Tucson state h
in Cochran, Arizona
Shrub 100-150 cm tall
with many small
flowers. ~~Leaves~~
green.

Cosmos scabrosoides HBK.

ad. 22-34 -
ann. 1911
pen. 1911. 4

9731 -
ad. 1911
ann. 1911
pen. 1911

ad. 1911
ann. 1911
pen. 1911

1017 - Soap
12 - 100' (100)
15 - 100' (100)
17 - 100' (100)
19 - 100' (100)

1017 - Soap

1045
1055 - 100' (100)
555

1017 - Soap

6325 ... 6...

Huajip...

763 - P. ...

777, 4 ...

847 - ...

849, 6

75 - ...

787 - ...

793, 5

11027 - ...

14963 at Tehuantepec
100' alt.

15041 Tacorotalpe

15053 - 2W'
- viscerum
2000'

055.5' mountain

15117. ~~055.5' mountain~~
055.5' mountain

1207, 1000' E 1/2 W
33W

15138.8 at Tuxtla
1750'

15192 at San Cristobal
6700'

215 - 1000' mountain

221.8 at pt

234'

235. at Chiapa

38.5 - 1000' at bridge

244.4 at Tuxtla 1700' + pt

15 45 4 - Tehuantepec
 8 5.7 600' Buena
~~7~~
 890 1000' T ridax
 97. ~~1000'~~ La Reforma
 15 5 65
 15 32 67 214 ft
 558.7 - 1000' Tototapan
 605.5 at Buena

41
 332
 332

297.5 at La Reforma
 1106.7
 at Buena
 1000'



